

Notice of Allowability

Application No.

10/025,892

Examiner

Yves Dalencourt

Applicant(s)

SATO ET AL.

Art Unit

2157

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/29/2005.
2. ☒ The allowed claim(s) is/are 2-6.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Yves Dalencourt
PATENT EXAMINER

DETAILED ACTION

This office action is responsive to amendment filed on 11/29/2005.

Response to Amendment

The examiner has acknowledged the amended claims 2, 3, 4, the new abstract, and the cancellation of claim 1.

Response to Arguments

Applicant's arguments, see amendment, filed on 11/29/2005, with respect to claims 2 - 6 have been fully considered and are persuasive. The objection of claims 2 - 4 has been withdrawn.

Allowable Subject Matter

Claims 2 – 6 are allowed.

The following is an examiner's statement of reasons for allowance: As specifically claimed the art of record fail to teach, among other limitations, in combination, an address translating means for performing, in said plurality of private networks, for communications data having identification information for identifying the respective private networks, mutual translation between said plurality of private addresses and said global address with a combination of said identification information and said private addresses, wherein said address translating means comprises a switching hub which performs, for communications data having VLAN-IDs for identifying

Art Unit: 2157

virtual LAN groups that are realized inside said plurality of private address networks, switching based on said VLAN-IDs and a duplicate network address translating device which performs, for frames which are to be switched by said switching hub and have private addresses and VLAN-IDs, mutual translation between said private addresses and said global address with a combination of said VLAN-IDs and said private addresses (claim 2).

The art of record fail to teach among other limitations, in combination, an address translating means for performing, in said plurality of private networks, for communications data having identification information for identifying the respective private networks, mutual translation between said plurality of private addresses and said global address with a combination of said identification information and said private addresses, wherein said address translating means is a multi protocol label switching (MPLS) router-cum-network address translating device or edge router which performs, for frames having MPLS labels for identifying the plurality of private networks, routing of an MPLS network based on said MPLS labels and also translates said MPLS labels into VLAN-IDs for identifying virtual LAN groups that are realized inside said plurality of private networks and a duplicate address translating device which performs, for frames having VLAN-IDs and private addresses that are translated by said MPLS edge router, mutual translation between said private addresses and said global address with a combination of said VLAN-IDs and said private addresses (claims 3 and 4).

The art of record fail to teach among other limitations, in combination, a server portion in which the identification information has been related to the virtual interfaces

beforehand and which stores, if receiving an arbitrary request from an apparatus in any of the networks, said request and identification information attached to said request, and makes, if making a response to said request, reference to said routing table, selects a virtual interface which has been related to the identification information and with which a network address of a response receiver coincides, and makes a response to said virtual interface, and a plurality of virtual interfaces for receiving data of said server portion, and further comprises: a virtual interface processing portion which adds, if receiving response data from any virtual interface, received identification information which has been related to said virtual interface in a routing table and sends said data to said switching means (claim 5).

The art of record fail to teach among other limitations, in combination, a duplicate address translating portion which performs, if sending and receiving data to and from the switching means, mutual translation between a combination of said identification information of said data and said addresses and a combination of a specific address and different respective ports and a server portion which accepts a request at said specific address and different respective ports via said duplicate address translating portion and sends response data to said request with said specific address and said applicable port toward said duplicate address translating portion (claim 6).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

Art Unit: 2157

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

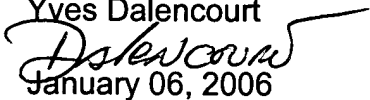
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yves Dalencourt whose telephone number is (571) 272-3998. The examiner can normally be reached on M-TH 7:30AM - 6: 00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Yves Dalencourt



January 06, 2006